SYSTEM AUDIT REPORT NUMBER 04/35812/TV02/AS-S03



THIS REPORT RELATES TO A/AN SURVEILLANCE/TRIENNIAL VISIT ON 6/22-25/04

Company: Marshal Space Flight Cer		sites Visited:			
	1. N/A				
Address: Marshall Space Flight Cen	ter, A L 35812		2. N/A		
•		1	2. IVA		
ISO 9001:2000: All Products Agency Infrastructure and is a AS9100: Design, Developmen	Major Contribu	tor to All Its Scientific	and Tec	chnical Enterprises.	
associated Ground Support Eq					bottvare, and
	(
Standard(s): AS 9100B	Support Docu	mentation(s): AS910	1B N	on-English Langua	ges Used: N/A
			····	· · · · · · · · · · · · · · · · · · ·	
Comments/Concerns of the Assessm					
Noncompliances noted are min Previously identified noncomp		rossrittan in this raport			
Recommend continued registr			•		
1000mmond continued registr	MON 10 715 710	,			
The visit is deemed to be:		Corrective Action Pla	n (CAP)	Instructions:	
Satisfactory				rking days (all NCs, Of	os & Ols). Certificate
Unsatisfactory		processing initiate	s after re	ceipt/acceptance of CA	APs.
Unsatisfactory visits may result in a chang	ge to the next			nust be closed prior to	
audit activity.		Return CAP i	n ten day	ys for Major NCs issue	d during surveillance.
NOA ASSESSMENT TEAM			COMP	ANY INFORMATI	ON
					ON
LEAD AUDITOR: Rick Giguere		f	MGI. K	EP.: Axel Roth	
TEAM: Trudy Keaveney	TEAM:		QUALI	TY MANUAL (REV	& ISSUE DATE):
TEAM:	TEAM:			Rev. M May 2	6, 2004
The support of the su					
The contents of this report is confidential and m					
above. Non-compliances/non-conformances rai					
compliances/non-conformances may exist which report. The company representative's signature	indicates their agree	ment and understanding of a	nv non-co	ompliances/non-conforma	nces and observations
contained in this report. Prior to the assessment	, the company must	have completed a complete s			
documented. The quality system shall be under	stood throughout the	organization.			
A TIPLE TO STATE OF THE STATE O	15.		d 6'-		
NOA, USA Representative Signature		Company Representat		, ,	Dogo 1 of 4
Juch Mas	4/25/04	+011 been	4	125/04	Page 1 of 4
	(for Axel Roth			

SYSTEM AUDIT REPORT NUMBER: 04/35812/TV02/AS-S03



AUDIT MATRIX

	SPECIFIC ISO 9001:2000 REQUIREMENTS FUNCTIONS/PROCESSES AUDITED DURING THIS VISIT x as applicable to indicate actual function/process								8	NEXT VISIT PLAN							
udited against the ISO 9001:2000 requirement. X or √ in next is thock indicates planned section for next activity. Estimated uration is 45 minutes. Note: Asterisk (*) indicates requirement to be reviewed at each civity.		ent Rep	MI	JC IC			TD 73/ QD 12/ AD10	MPLM / FD24/ COLSA	MSG / SD4/SD44/SD43	37	720	D24/20	40/PS30				
ISO 9001:2000 Reference	Clause Title	Management Rep	QD 50, MTM	QD02, PMC	QD 40	HEI	TD 73/ Q	MPLM/F	MSG / SD	QD 30/ ED 37	PRL ad20/20	ECLSS /ED24/20	QD30/QD40/PS30	AD50	ED 43		
4.2.1 & 4.2.2*	Quality Manual *					X											X
4.2.3	Document Control							X	X	X					X		
4.2.4	Quality Records							X	X	Х					X		X
1.1, 5.1, 5.2, 5.3, 5.4.2, 5.5	Management Activities	X															
5.4.1*	Quality Objectives*	X	Х	X													X
5.6*	Management Review *	X	X	X													X
6.1 & 6.2	Resources & Competence							Х	x	X							
6.3 & 6.4	Infrastructure & Work Environment							X	х	Х							
7.1	Product Realization Planning							X	X	X							X
7.2	Customer Related Process & Comm.										X	X					Х
7.3	Design & Development										X	X					
7.4	Purchasing												X				
7.5.1 & 7.5.3	Process Provision and ID&T Activities							X	X	X							
7.5.2	Process Validation								Х								
7.5.4	Customer Property						X	Х	Х	Х				X			
7.5.5	Preservation (Handling, Storage & Deliv.)								X	Х						7	
7.6	Calibration								X	Х							
8.1	Measurement & Monitoring Planning						X										X
8.2.1*	Customer Satisfaction*	Х														\neg	X
8.2.2*	Internal Audits*				X												X
8.2.3	Measurement & Monitoring of Process						X										····
8.2.4	Measurement & Monitoring of Product						X									1	
8.3	Non-Conforming Processes/Products						X	X	X	X							
8.4	Analysis of Data	X	X	Х													X
8.5.1*	Continuous Improvement*	X		X													Х
8.5.2 & 8.5.3*	Corrective/Preventive Action*		X	X	х		X										X
	Use of NQA Logo	Х															X

SYSTEM AUDIT REPORT NUMBER 04/35812/TV02/AS-S03



SYSTEM AUDIT RECORD

Auditor(s): Rick Giguere Trudy Keaveney

Date: June 22-25, 2004

Clause No.	Record of Details of Audit (names, referenced documents, depts, etc.)	NC	Obs or OIs
4/5	See AS 9101 B checklist INTERVIEWED: DOCUMENTS REVIEWED: OBJECTIVE EVIDENCE SAMPLED:	3	
6	See AS 9101 B checklist INTERVIEWED: DOCUMENTS REVIEWED: OBJECTIVE EVIDENCE SAMPLED:		
7	See AS 9101 B checklist INTERVIEWED: DOCUMENTS REVIEWED: OBJECTIVE EVIDENCE SAMPLED:	3	1
8	See AS 9101 B checklist INTERVIEWED: DOCUMENTS REVIEWED: OBJECTIVE EVIDENCE SAMPLED:	2	

T	O]	AL	8	1
PAGE	3	OF	4	

SYSTEM AUDIT REPORT NUMBER 04/35812/TV02/AS-S03



Def	Cla	NON CONFORMANCES & ORSERVATIONS (OPPONING MODIFIED MODIFI	NGIORGI
Ref No.	Clause No.	NON-CONFORMANCES & OBSERVATIONS/OPPORTUNITIES FOR IMPROVEMENT RAISED	NC/OBS/ OI
1	4.2.3	Test Discrepancy Reports are not completed in a consistent manner.	NC
2	7.4	Qualification criteria, thresholds of performance and consequences of poor performance have not been identified.	NC
3	7.4	Required actions when issued during supplier audits that introduce a potential risk are not identified. Ref: Sierra Lobo NDE Audit item#11, General finding polyolefin and nylon in space flight application, omission of mettallographic inspection in work instructions.	NC
4	8.5.2	Supplier corrective actions do not demonstrate full root cause corrective action anlysis. ref: Sierra Lobo audit finding corrective actions.	NC
5	7.4	Supplier has performed work for the organization since 10/02; audit of supplier for qualification is just being completed. Ref: Sierra Lobo.	NC
6	8.2.2	Reference NQA audit 03/35812/AS-S02, noncompliance item 1. Corrective action for this noncompliance could not be satisfactorily verified at this time. A review of internal audit records reveals that objective evidence is lacking of audits extending to AS 9100 requirements as specified in MPG 1280.6.	NC
7	5.6	MPG 7120.4 Appendix I: PPA Monthly Health Status Report requires that root cause of any yellow or red condition and recovery plan be described. A review of these reports reveals inconsistencies in the reporting of cause analysis and recovery plans in roughly half of the projects/programs reporting.	NC
8	4.3	MPG 8040.1, Configuration Management, MSFC Programs/Projects, Par. 3.4.2 states that Each program and/or project office shall ensure that periodic CM system audits of in-house CM activities be conducted. A review of CM audits reveals that it is CM itself that initiates these audits, and not the program or project office. Certain programs, such as Solar B and Dart, have declined audits.	NC
		(Continued from above)It is not likely that CM audits would be conducted without the initiative of the CM group.	
9	7.5.1	In Bldg. 4619, certain pressure gages were noted with operational check labels on them that had expired due dates. Although these are not calibration labels, there could be some confusion as to their validity with stickers indicating that operational checks are overdue.	OBS

	 		
NQA	USA Representative Signature and Date:	Company Representative Signature and Date:	_
1/6	let 1/25/04	DHANGE FOR AND ROLL 6/25/04	Page ψ of ψ
		, , , , , , , , , , , , , , , , , , ,	



AEROSPACE STANDARD

Technically equivalent to AECMA prEN 9101 REV. B

Issued Revised 2000-09 2003-03

Superseding AS9101A

Quality Management Systems Assessment

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FOREWORD

In December 1998, the Aerospace Industry has established the International Aerospace Quality Group (IAQG) with the purpose of achieving significant improvements in quality and reductions in cost throughout the value stream.

This organization, with representation from Aerospace companies in Americas, Asia and Europe and sponsored by SAE, SJAC and AECMA has agreed to take responsibility for the technical contents of this standard.

CONTENTS

QUALITY MANAGEMENT SYSTEMS - ASSESSMENT

1	Purpose	5
2	Quality system assessment report content	5
Appendix A	Quality system questionnaire	. 13
Bibliography		. 47

SECTION 1

* * *

QUALITY MANAGEMENT SYSTEMS ASSESSMENT

1 PURPOSE

The purpose of this document is to define the content and the presentation of the Assessment Report of the section 1 of AS9100.

2 QUALITY SYSTEM ASSESSMENT REPORT CONTENT

The Assessment Report is made up of:

- Page 6 (required)
 General Assessment Information
- Page 7 (required)
 Assessment Conclusions
- Page 8 (optional)
 General Organization Information
- Page 9 (required)
 Assessment Result Summary
- Page 10 (required)
 Assessment Scoring
- Page 11
 Corrective Action Request (when required)
- Page 12
 List of Recommendations/Observations/Comments
- Appendix A
 Quality System Questionnaire relative to the section 1 of AS9100

Assessing company logo

	GENERAL A	SSESS	MENT INFORMATION	
1 Organization & Work Add	ress			
Company Name: NASA - Subsidiary of: Organization Identification: Assessed Site Address: MARSHALL SPACE FLICE Main activities: Product Types or Codes: 2 ISO Registration	MSFC	CAGE code: 21, 33, Assessment Represent Axe I Quality Manager Repre	544-4155 @ msfc.nasa.gov 34	
[✓] ISO Registered [✓] ISO Standard / Revision [✓] Aerospace Standard / Revi			Registrar Name: No Expiration Date (If appli	,
Lead Assessor Name: [/] Certified Auditor – Type & N [] Qualified Auditor 4 Assessment Dates:	403158 R03158	72	Other Assessor Team N TRUDY KEAVEN - 25, 2004	
5 Assessment Scope				
[/ Total facility assessed [] Partial facility assessed [] Other: [] Activity assessed:	[] Initial assess [] Re-assessme		[/] All 9100 elements as [] Partial 9100 element Elements not assessed:	ts assessed
6 Assessment Disposition			7 Scoring	
[] Conforming [] Conforming with minor (mi) [] Non conforming with Major (l	Scoring result: 91	
8 Assessment Approval				
Assessing Company ルルター いろA	Date June 25, 2004		ead Assessor Name K Gight re	Signature Research Hy

Distribution Agreement

This Assessment Report is the property of the assessed Organization and the assessing Company. Distribution to other companies or individuals is authorized only after written agreement of the assessed Organization and of the assessing Company.

To that end, a signature below by an Authorized Representative of the assessing company indicates that this report may be copied by the organization for other customers.

If copied, the report must be disclose	d in full including find	ings and any correctiye actions.,	
Authorized Representative Assessing Company Name	GIANERE	Signature Wichaul Stor	Date 6/25/04
Assessing Company Namez 1	0 4/200.	Olginatare VX 9 (9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
• 14/3) - 14/3	india.		, -

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ASSESSMENT CONCLUSIONS

General comments about the organization and the quality system of the assessed organization:

See audit report

Strong points:

· Environmental Engineering Dopt - 2004 Implementation Plan provides clear indication of objectives flow down from NASA.

Improvement Opportunities:

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	Ċ	SENERAL ORGANI	IZATION INFO	RMAT	TION	
1 Legal and Financial	Aspe	cts				
☐ Date of Formation:	,					
☐ Legal Status:	1 .					•
☐ Capital:				,		
Other Data:						
		Third Prior Financial Year ()	Second Pri Financial Ye ()	1	First Prior Financial Year ()	Current Financial Year
Sales						
Earnings		·	:			
Earnings used for Re- Investment						
Workforce						
2 Turnover breakdown	and n	nain Customers				
Activities		Main Custom	ners		Sales Percent	tage
Aircraft, Space and Defense Industry						
Other Activity (be specific)						
Clearances or Approva	als gra	anted by Authoritie	es			
Name of the Authority		Types and Refer	ences		End of Validi (date)	ty
			2.5			

Assessing company logo

	ASS	ESSMI	ENT RI	ESULT SUMMARY
Organization: NASA				
Elements*		Resu	ılt	Observation / Corrective Action Request Number
(AS9100 – Section 1)	S	Ma	mi N	/A (MA/mi)
4 - Quality Management System				$\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \right) \right)}{1} \right) \right) \right)} \right) \right)} \right) \right) \right)}$
4.1 General requirements	T .			
4.2 Documentation requirements			7	
4.3 Configuration Management			1	
5 - Management responsibility				
5.1 Management commitment				
5.2 Customer focus				
5.3 Quality policy				· . · · · · · · · · · · · · · · · · · ·
5.4 Planning	· .			
5.5 Responsibility, authority and communication				
5.6 Management review				
6 - Resource management				
6.1 Provision of resources				
6.2 Human resources				The state of the s
6.3 Infrastructure				
6.4 Work environment				
7 - Product realization				
7.1 Planning of product realization				
7.2 Customer-related processes				
7.3 Design and development				
7.4 Purchasing		-	3	
7.5 Production and service provision				7.5.1 abs. Su Wonder Regart.
7.6 Control of monitoring and measuring devices				
3 - Measurement, analysis and impi	rovem	ent		
3.1 General				
3.2 Monitoring and measurement		Í		
3.3 Control of nonconforming product				
3.4 Analysis of data				
.5 Improvement				
ssessed Organization: NASA		8		Assessing Company: NGA - USA Lead Assessor Name: Rick Giguere
Rep's name: Axe(Roth ignature: Tymlen for Axe/Pott		Results	. 1	Lead Assessor Name: KICKGI guere Signature:

^{*} For each element, cross results of assessment: "S" for Satisfactory, "Ma" for major corrective action, "mi" for minor or "N/A" for non applicable

O Gain	zation :			Ke	sult		
	SCORING CHART	Major CAF CAR o require	n Key	Minor CAR on <u>non</u> Key requirement		NO CAR	RESULT
		Multiple findings	Single finding	Multiple findings	Single finding		
4	Quality management system					(100)	
4.1	General requirements	0	10	25	40	50	50
4.2 & 4.3	Documentation requirements & Configuration management	0	10	25 (25)	40	50	25
5	Management responsibility					(150)	
5.1	Management commitment						
5.2	Customer focus	0	5	15	20	30	20
5.3	Quality policy				20	30	30
5.4	Planning	0	10	20	30	40	40
5.5	Responsibility, authority and communication	0	5	15	20	30	30
5.6	Management review	0 .	10	25	(40)	50	40
6	Resource Management					(100)	
3.1	Provision of resources	0	10	25	40	50	00
6.2	Human resources	Ü			70	50	50
3.3	Infrastructure	0	10	25	40	50	
6.4	Work environment				1 40	30	50
7	Product realization					(450)	
'.1	Planning of product realization	0	5	15	20	30	30
.2	Customer related processes	0 .	10	30	50	60	60
.3	Design and development						
7.3.1	D& D Planning	0	5	15	20	30	30
7.3.2-3-4	Inputs, outputs & review	0	5	-15	20	30	30
7.3.5-6	D&D verification & validation	0	5	15	20	30	30
7.3.7	Control of design and development changes	0	5	<u>15</u>	20	30	30
.4	Purchasing	0	10	(30)	50	60	30
.5	Product and service provision						
7.5.1	Control of production and service provision	0	10	25	40	50	50
7.5.2	Validation of processes for production and service provision	0	10	20	30	40	40
7.5.3	Identification and traceability	0	10	20	30	40	40
	Customer property & preservation of product	0	5	15	20	30	30
	Control of monitoring and measuring device	0	5	10.	15	20	20
. 8	Measurement analysis and improvement					(200)	
	General	0	5	10	15	20	20
	Monitoring and measurement						
	Customer satisfaction	0	5	10	15	20	20
	Internal audit	0	5	. 15	(20)	30	20
	Monitoring and measurement of processes	0	5	15	20	30	30
	Monitoring and measurement of product	0	5	15	20	30	30
	Control of nonconforming product	0	5	15	20	30	30
	Analysis of Data	0	5	10	15	20	20
	Improvement	0	5	10	(15)	20	15
<u></u>	Improvement				TOTAL	880 ⁽¹⁾ or 1000	910
ne assesse quests	ed Organization agrees on the Quality System scoring and Cor	rective Actio	n .		SCORE	9/010	0 91
	Representative : Signature :	Date :					• 1

(1) When 7.3 is not assessed : SCORE = RESULT X 100

CORRECTIVE ACTION REQUEST (C.A.R.)

Assessing company logo

Organ	nization:			Identific	ation C.A.F	R. No.:		,	1
Site:				Date iss	ued:		I		
Refere	ence Standard:			Referen	ced Standa	ard Ele	ment con	cerned:	
	Criticality Ma / mi			Non-Confor	nance Des	criptio	n ,	,	

					9		٠.	•.	
Assess	sor Name:			Assessor	r Signature	:			
	nd planned compl	complete the Correct etion date of correct						Due da	te:
Action No.:	Root Cause:						,	,	
Action No.:	Corrective Action	n:						Planned complete of Corrective	
Organiz	ation Representa	tive Name:	Signature:			Curre	ent date:		
Ve	erification of the	implementation of	the complete	ed Correctiv	e Action b	y the A	ssessed	Organizat	ion
Organization Representative Name:		Signature:			Curre	Current date:			
Verifica	ition of the impler	nentation of the co	mpleted Cori	ective Actio	n to be fille	ed out l	by the As	sessing Co	ompany
erificati	on date :	Accepted: Yes □	No 🗇	Assessor N	lame:		Assesso	r Signature	9:

List of Recomm	endations/Obser	vations/Commen	ts Assessing company logo					
Organization: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	SA	Audit report number	104	1350	14/1	1001AS		
Site:	ville	Issued date :	6/3	25/04	/	7		
Item Number Section		Description						
	See	mones.	n fe	rna	nei			
		reje	e G	•				
				·				
				¥				
ead Assessor Name:		Signatore:			•			

S: Satisfactory—CAR: Corrective action required — Ma: Major corrective action — mi: Minor corrective action N/A: Not applicable - N/E: Not evaluated - P: Product - M: Management

APPENDIX A AS9101

* * *

QUALITY SYSTEM QUESTIONNAIRE

PURPOSE

The purpose of this document is to present the questionnaire to be used during the "on site" quality system assessment of Organizations in order to ensure common practices for these assessments. This questionnaire is relative to the section 1 of AS9100.

2. USE OF THE QUESTIONNAIRE

The use of this questionnaire is mandatory and will be a part of the Assessment Report. The questionnaire is used to evaluate AS9100 standard, section 1.

The audit is undertaken by review against the requirements of the questionnaire and the findings are recorded as appropriate by annotation of respective columns,

- Satisfactory (S)
- Not applicable (N/A) the reason shall be documented in the bottom of the page
- Not evaluated (N/E)
- > Corrective Action Request (CAR) Major (Ma) or Minor (mi.) finding:

The CAR number shall be referenced in the column "CAR number"

The category Ma for Major CAR or mi for Minor CAR shall be included in this column also.

Additional information on questionnaire

Key Requirements: Some requirements are deemed to be very significant and are so identified by the presence of 'P' or 'M' against the specific section or question within the questionnaire,

"P" direct link with product

"M" direct link with Management

The extent of Key Requirement applicability is determined by the location of the 'M' or 'P'. In the example below all of question 14 is considered as a key requirement.

14	Does to	ne output from the management review include any decisions and actions related to:	М		
	a)	Improvement of the effectiveness of the quality management system and its processes ?			
	b)	Improvement of product related to customer requirements? and			
	c)_	Resource needs ?			

In the second example below only part of question 03, i.e. d) is considered Key Requirement.

		·				
3	In pla	anning product realization, does the organization determine the following, as appropriate:				1
	a)	Quality objectives and requirements for the product?				1
	b)	The need to establish processes, documents, and provide resources specific to the product?				
	c)	Required verification, validation, monitoring, inspection and test activities specific to the product and the criteria for product acceptance?				
	d)	Records needed to provide evidence that the realization processes and resulting product meet requirements (see 4.2.4)?	Р		547	
54.	e)	The identification of resources to support operation and maintenance of the product?			alie.	

Guidance notes: Certain questions will have a numeric reference that refers to additional guidance notes which are detailed within the 'Guidance notes' section located after the questions on each page. The guidance notes provide the Auditor with further insight on type of objective evidence and/or review expectations etc. In the example below, note (1) refers the auditor to additional notes pertaining to question 1 part a).

48	Does	the analysis of data provide information relating to :	i i			
,	a)	Customer satisfaction (see 8.2.1) (1) ?	•			
	b)	Conformity to product requirements (see 7.2.1) e ?	٠,	'		
	c)	Characteristics and trends of processes and products including opportunities for preventive			,	
		action ? And				
1	d)	Organizations ?				

Guidance Note

Give examples and check how the organization measures the effectiveness.

<u>References</u>: When a reference (e.g. 4.1) is added to a question, It is linked to the appropriate chapter (e.g. 4.1) of AS9100.

Objective evidence assessed / Observations / Comments / N/A explanation Record the objective evidence reviewed during the assessment or reason for not applicable.

Non-conformities:

Major: The absence of, or total breakdown of a management element specified in the 9100 standard or any non-conformities where the effect is judged to be detrimental to the integrity of the product or service.

Minor: A single system failure or lapse in conformance with a procedure relating to the 9100 standard.

Note: A number of minor non-conformities against one requirement can represent a total breakdown of the system and this can be considered as a major non-conformity

USE OF THE ASSESSMENT SCORING CHART

Following completion of each chapter of the Quality System Questionnaire the nomenclature Assessment Scoring chart can now be completed.

The findings of each section and sub-section of the completed Quality System Questionnaire are reviewed and the Assessment Scoring sheet completed as follows.

- If, multiple findings (i.e. greater than 1) with Major (Ma) Corrective Action Request (CAR) or minor (mi) CAR on Key requirement in a section, e.g. 4.1 General Requirements then score in Major CAR or minor CAR on Key Requirement (i.e. any questions with 'M' or 'P' indicator) "Multiple findings" column (result = 0), or
- ▶ If, single finding with Major (Ma) CAR or minor (mi) CAR on key requirements in a section, e.g. 4.1 General Requirements then score in Major CAR or minor CAR on Key Requirement "Single finding" column (result =10), or
- If, multiple findings on non Key requirement (i.e. greater than 1) with Minor (mi) (CAR) in a section, e.g. 4.1 General Requirements then score in Minor CAR on non Key requirement "Multiple findings" column (result=25), or

- ➤ If, single finding on non Key requirement with Minor (mi) CAR in a section, e.g. 4.1 General Requirements then score in Minor CAR on non Key requirement "Single findings" column (result = 40), or
- ➤ If, no CAR in a section, e.g. 4.1 General Requirements then score in "NO CAR" column (result=50)
- ➤ When a single finding occurred on several questions affecting the same section of the scoring table (e.g. 4.2 & 4.3 or 5.1-5.2-5.3), then score as "multiple findings".

Further notes on scoring

The above review criteria should be considered sequentially.

Maximum audit total can be,

1000, where audit review comprises whole Quality System Questionnaire or,

880, where audit review comprises Quality System Questionnaire less Design and Development. In this case, the final score = TOTAL X 100

880

If a complete section line of the score sheet has not been assessed (N/A or N/E) the score will be calculated as follow:

Score = TOTAL x 100
Sum of maximum possible score

The higher the score the greater the level of compliance acknowledged by the audit activity.

Summary

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8.5	Improvement	46

	ASSESSMENT QUESTIONS	KEY Requirem		s	CAR Number Ma or mi	N/A	N/E
4	QUALITY MANAGEMENT SYSTEM						
4.1	General requirements	r					
ma	s the organization established, documented, implemented and maintained a quality nagement system and continually improve its effectiveness in accordance with the uirements of this International Standard?			/			
02 Doo a) b) c) d)	identify the processes needed for the quality management system and their application throughout the organization (1)? determine the sequence and interaction of these processes (1)? determine criteria and methods needed to ensure that both the operation and control of these processes are effective? ensure the availability of resources and information necessary to support the operation and monitoring of these processes? monitor, measure and analyze these processes? and implement actions necessary to achieve planned results and continual improvement of these processes?			/			
	these processes managed by the organization in accordance with the requirements of this national Standard?			1			
	re an organization chooses to outsource any process that affects product conformity with rements, does the organization ensure control over such processes?	Р	ί	/			
05 Is the	e control of such outsource processes identified within the quality management system?		V				
product r	rocesses needed for the quality management system referred to above should include process ealization and measurement.	ses for m	ana	geme	ent, provisio	on,	
) Main	process formally identified e.g.: list, flow diagram, etc.						ᆜ
bjectiv	ve evidence assessed / Observations / Comments / N/A explanation						
							- -

200

QUALITY SYSTEM QUESTIONNAIRE

		ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E				
4.	.2	Documentation requirements					'				
4.	2.1	General									
06	a) b) c) d)	es the quality management system documentation include: documented statements of a quality policy and quality objectives? a quality manual? documented procedures required by this International Standard? documents needed by the organization to ensure the effective planning, operation and control of its processes? records required by this International Standard (see 4.2.4)? and quality system requirements imposed by the applicable Regulatory Authorities?									
07		es the organization ensure that personnel have access to quality management system cumentation and are aware of relevant procedures ?		\(\)							
08		Customer and/or regulatory authority representatives have access to quality nagement system documentation ?		\checkmark	F		'				
4.2	.2	Quality manual UPD (280. 1 Rev M									
	a) (the organization established and maintained a quality manual that includes (1): the scope of the quality management system, including details of, and justification for, any exclusions? the documented procedures established for the quality management system, or reference to them, and when referencing the documented procedures, is the relationship between the requirements of this International Standard and the documented procedures clearly shown (2)? a description of the interaction between the processes of the quality management system?		<i>\</i>							
	All and the state of the state										

Note 1: Where the term "documented procedure" appears within this International Standard, this means that the procedure is established, documented, implemented and maintained.

Note 2: The extent of the quality management system documentation can differ from one organization to another due to

- a) the size of organization and type of activities,
- b) the complexity of processes and their interactions, and
- c) the competence of personnel

Guidance Notes

- 1) Quality manual reference and issue
- 2) Check the procedure list

Objective evidence assessed / Observations / Comments / N/A explanation

Reviewed Mgmt Review meeting minutes
Reviewed change to Manual over triennial period
Sampled access to documents at various segment of audit.

procedures - on-line.

S: Satisfactory - CAR: Corrective action required - Ma: Major corrective action - mi: Minor corrective action N/A: Not applicable - N/E: Not evaluated - P: Product - M: Management

	QUALITY SYSTEM QUESTIONNAIRE	KEY	S	CAR	N/A	NVE
	ASSESSMENT QUESTIONS	Requirements		Number Ma or mi		
4.2	Documentation requirements (continued)					
4.2.3	Control of documents			,		,·
10 Are	the documents required by the quality management system controlled?	М	/			
11 Are	records controlled according to the requirements given in 4.2.4?		/			Γ
a) b) c) d)	a documented procedure been established to define the controls needed to : approve documents for adequacy prior to issue ? review and update as necessary and re-approve documents ? ensure that changes and the current revision status of documents are identified ? ensure that relevant versions of applicable documents are available at points of use ?		/			-
f) g)	ensure that documents remain legible and readily identifiable? ensure that documents of external origin are identified and their distribution controlled? and prevent the unintended use of obsolete documents, and to apply suitable identification to them if they are retained for any purpose?					
	es the organization coordinate document changes with customers and/or regulatory norities in accordance with contract or regulatory requirements?					
4.2.4	Control of records					
	records established and maintained to provide evidence of conformity to requirements and e effective operation of the quality management system?		/			
15 Dor	ecords remain legible, readily identifiable and retrievable (1) ?					
	a documented procedure been established to define the controls needed for the tification, storage, protection, retrieval, retention time and disposition of records?					
	s the documented procedure define the method for controlling records that are ted by and/or retained by suppliers ?					
	records available for review by customers and regulatory authorities in accordance contract or regulatory requirements ?	c				
4.3	Configuration management MWI 80 46, 2 RWC			. 54		
	the organization established, documented and maintained a configuration management ess appropriate to the product ?	Р		NC NC		
	nce Note ecords reviewed					
bjectiv	ve evidence assessed / Observations / Comments / N/A explanation					
الات	CN 8479 3578 form 23	-		L 98		
	CCB Code - Effectivity that from Ist	}6 8 1	May Iss	11		
(SPTAS Appreciated Mostor Report for MWI 8040,2			• (
	date endared into CPTHS MP 00065					
So	Ran B - no confix Mynt office - neither contractors paso	40.1				
Da	at - " " Rev	3 مح ح	· 4- !	2		

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CM audit datad, 12/8/03 of (OSP) x-3/20-

Audit Pet
Clufis Audit. MSSR-1 7/03 (03-)

X-37 11/03 (03-)

NGLT-REP 12/03 (04-001)

(PTIP) 2/04 (04-005)

(SS NOOE 4/04 (04-010)

X-37 Right-Request to perform audit (memo) 10/23/03 Report of Audit results 12/8/03

4.3 Corps

NODE H3 hoject offer

Level III CCB
Menbuship of CCB - Charter littles - approved by pringers

CM Plan SSNP1 NC-0015

Cho Regus 155 - 55CN 004652 = change evaluation -

PIRN - Pulin Interface Per. Notais - PIRN 50314-NA-8005A IFN # NOD 02-00 [7 - Approves PIRN

Directive > OL 40f 6 CCB medres Sign w/ proj. Mys. consumos chairperson

1	QUALITY SYSTEM QUESTIONNAIRE					
	ASSESSMENT QUESTIONS	KEY Requiremen	S	CAR Number Ma or mi	N/A	N/E
4.2	Documentation requirements (continued)					
4.2.3	Control of documents TD 70-002 Bux horestorate					
10 Are	e the documents required by the quality management system controlled?	М	S			
11 Are	e records controlled according to the requirements given in 4.2.4? Uso TDR	records	mil	Mi		
a) b) c) d) e) f)	a documented procedure been established to define the controls needed to: approve documents for adequacy prior to issue? review and update as necessary and re-approve documents? ensure that changes and the current revision status of documents are identified? ensure that relevant versions of applicable documents are available at points of use? ensure that documents remain legible and readily identifiable? ensure that documents of external origin are identified and their distribution controlled? and prevent the unintended use of obsolete documents, and to apply suitable identification to them if they are retained for any purpose?	etronie	W. Ca			
13 Do	es the organization coordinate document changes with customers and/or regulatory horities in accordance with contract or regulatory requirements?	11	S			
4.2.4	Control of records			-		7,7
	records established and maintained to provide evidence of conformity to requirements and ne effective operation of the quality management system?		5			
15 Do i	records remain legible, readily identifiable and retrievable (1) ?		S			
	a documented procedure been established to define the controls needed for the tification, storage, protection, retrieval, retention time and disposition of records?		S			
	the documented procedure define the method for controlling records that are steed by and/or retained by suppliers?		S			`
	records available for review by customers and regulatory authorities in accordance contract or regulatory requirements ?		S			
4.3	Configuration management					
	the organization established, documented and maintained a configuration management ess appropriate to the product ?	Р				1
bjectiv	records reviewed Cantiacts of Line Depuis Pest, Cove evidence assessed / Observations / Comments / N/A explanation thank Haceductes & walk instruction them herewood on line Deptem led a crecisions 3 TD R not Cousistanly filled out corres ry 5D 40. OW I. 003 My MFS Plan 305 2 Integration ry 5D 40. OW I. 003 My MFS Plan 305 2 Integration letter Megation Province Oction Clasures Reco	Leller	IDA RAS PICE	LAN-LI Lease CE OG Danif Ru	pul	10

	E		٠		
ASSESSMENT QUESTIONS	KEY Requirements	s	CAR Number Ma or mi	N/A	NVE
5 MANAGEMENT RESPONSIBILITY					
5.1 Management commitment					,
01 Has Top management provided evidence of its commitment to the development a implementation of the quality management system and continually improving its effectiveness (1): a) communicating to the organization the importance of meeting customer as well as statute and regulatory requirements? b) establishing the quality policy? c) ensuring that quality objectives are established? d) conducting management reviews? And e) ensuring the availability of resources? 5.2 Customer focus	by ,	est			1
5.2 Customer focus	autos	<u> </u>			
02 Has Top management ensured that customer requirements are determined and are met with the aim of enhancing customer satisfaction (see 7.2.1 and 8.2.1)?	ne	··			1
5.3 Quality policy			F .1		. '
 03 Has Top management ensured that the quality policy: a) is appropriate to the purpose of the organization? b) includes a commitment to comply with requirements and continually improve the effectivenes of the quality management system? c) provides a framework for establishing and reviewing quality objectives? d) is communicated and understood within the organization (2)? and e) is reviewed for continuing suitability? 	ss				¥
5.4 Planning		,			
5.4.1 Quality objectives					
04 Has Top management ensured that quality objectives, including those needed to mee requirements for product [see 7.1 a)] are established at relevant functions and levels within the organization (3)?					
05 Are the quality objectives measurable and consistent with the quality policy?	М		,		
5.4.2 Quality management system planning					
 Has Top management ensured that: a) the planning of the quality management system is carried out in order to meet the requirements (see 4.1), as well as the quality objectives? and b) the integrity of the quality management system is maintained when changes to the quality management system are planned and implemented? 					
Guidance Notes 1) Evidence of management commitment 2) Identify and records method of communication					

Objective evidence assessed / Observations / Comments / N/A explanation

dramined policy and internal review of roley for adequoisy Reviewed objective and performance against the San as evidenced in Balanced Secretary

SAE AS9101 Revision B					
QUALITY SYSTEM QUESTIONNAIRE		J. Wares			
ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
5.5 Responsibility, authority and communication					
5.5.1 Responsibility and authority		,			
07 Has Top management ensured that the responsibilities and authorities are defined an communicated within the organization (1) ?	d	/			
5.5.2 Management representative				,,	
 O8 Has Top management appointed a member of management who, irrespective of other responsibilities, has responsibility and authority that includes: a) ensuring that processes needed for the quality management system are established implemented and maintained? b) reporting to top management on the performance of the quality management system and any need for improvement? c) ensuring the promotion of awareness of customer requirements throughout the organization? and 	1	/		,	
d) the organizational freedom to resolve matters pertaining to quality ?					
5.5.3 Internal communication	· · · · · · · · · · · · · · · · · · ·				
09 Has Top management ensured that appropriate communication processes are established within the organization and that communication takes place regarding the effectiveness of the quality management system?	1 1	/			
Guidance Note					\neg
Identify and records method of communication within the organization					
Objective evidence assessed / Observations / Comments / N/A explanation Waluafted responsibility + outhority - particularly CCB membership, MPB membership,	es et u	letza	l to		
approval of documents					
- Interviewed Ayal Roth, Hynt Rep. as just of 5.6.					
- Observed Isternal Communication at warrows point	of audit				

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MPG-7120:4

8.4

8,5.3

MSC/PMC- Program Anagement Council project/program evaluation. (Redyclow, green)

Stop light charts by project + 88m

- Green, yellow, Red-

7120.4 Pan I.I.I. requir Caus + c/A from reds/yellows - Not done a Consistant lasis yellow/ had veguir eyplanakin of proble and action plan.

<u> </u>	QUALITY SYSTEM QUESTIONNAIRE			n attenda		
<u> </u>	ASSESSMENT QUESTIONS	KEY Requirements	s	CAR Number Ma or mi	N/A	N/E
5.6	Management review					
5.6.1	General					•
l	as Top management reviewed the organization's quality management system, at planned tervals, to ensure its continuing suitability, adequacy and effectiveness (1)?		V			
l	pes this review include assessing opportunities for improvement and the need for changes to e quality management system, including the quality policy and quality objectives?	·	/	ı		
12 Ar	e records from management reviews maintained (see 4.2.4)?		_}		1	
5.6.2	Review input					
13 Do	nes the input to management review include information on (2):	М				
a)	results of audits?			1		
b)	customer feedback?			. [
c)	process performance and product conformity?					
d)	status of preventive and corrective actions?	1		' '	.	' l
e)	follow-up actions from previous management reviews?					- 1
f)	changes that could affect the quality management system? And	1.		."		
g)	recommendations for improvement?			,		
5.6.3	Review output					
14 Doe	s the output from the management review include any decisions and actions related to (2):	M	٠.			
d)	improvement of the effectiveness of the quality management system and its processes?		4.			
e)	improvement of product related to customer requirements? And		ra	ne		
f)	resource needs?					
<u> </u>	anna Nataa			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

Guidance Notes

- 1) Records management review frequency and functions involved (e.g : quality, production, etc.)
- 2) Verify the availability of input / output data such as: statistical data; graphics; summary tables; reports; etc.

Objective evidence assessed / Observations / Comments / N/A explanation
5/25/04 - Ugut Borin - Axel Roth Dennie DAVIS - Safety, MTM, QDSD
Success Stones - / 5/24 Report In Fy 04
-MGC actions - Tracking action uten / , Lost Time Rate
- custome feedback reporting - / oshe Recadable
- Objectives - Continued Learning / all Com
- Lafety / unsafe act
- Mac- Proces Ref- Prod. Cenf. Consective action - Status
- Int Audit / Safety Data -
- CA/PA Program - ROAR / - DOWN + comil
- change that could effect / VGW mant corneil
dojective / See adjacent pacs

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Chris Smith - Truck Driver - CDL Class B Doon Welton - Forhelft who el. 1,5 Active David Creen - grp 4/15 class 1-7 Active Pail Fletchen - exp 7/04 cl 1,5 Active Sen Franklin V 7/14 "."

John Harris - Reig Forklift 7/04 Active Cedric Corn leig " 1/07 Active

Ausspace Engineer position description 32575 - Jin Lindson

QUALITY SYSTEM QUESTIONNAIRE	-				
ASSESSMENT QUESTIONS	KEY Requirements	s	CAR Number Ma or mi	N/A	N/E
6. RESOURCE MANAGEMENT					
6.1 Provision of resources					
O1 Has the organization determined and provided the resources needed: a) to implement and maintain the quality management system and continually improve its effectiveness? And		V		-	
b) to enhance customer satisfaction by meeting customer requirements?					
6.2 Human resources					
6.2.1 General					
02 Are personnel performing work affecting product quality competent on the basis of appropriate education, training, skills and experience (1)?		/			
6.2.2 Competence, awareness and training					
O3 Does the organization: a) determine the necessary competence for personnel performing work affecting product quality (2)? b) provide training or take other actions to satisfy these needs?	P	/			
c) Evaluate the effectiveness of the actions taken? d) ensure that its personnel are aware of the relevance and importance of their activities and how they contribute to the achievement of the quality objectives? e) maintain appropriate records of education, training, skills and experience (see 4.2.4) (3)?					,
6.3 Infrastructure					
O4 Does the organization determine, provide and maintain the infrastructure needed to achieve conformity to product requirements? Infrastructure includes, as applicable: a) buildings, workspace and associated utilities? b) process equipment (both hardware and software) ? And					
c) supporting services (such as transport or communication)?			I		
Work environment Does the organization determine and manage the work environment needed to achieve conformity to product requirements?	P	1			
Note: Factors that may affect the conformity of the product include temperature, humidity, lighting, cleanliness discharge, etc.	, protection	from e	electrostatic		
Guidance Notes 1) Review training Records and Plan (status of the current year and of the previous year) 2) Give examples of methods used to determine competence (e.g.: competence matrix, multiskill,) 3) Review training certificates for the certified personnel and training records (internal and external train	ning courses	;)			
Descrive evidence assessed / Observations / Comments / N/A explanation Reith besser-Ingeneer (MELPHI) Lead Thermal Eng. D. Clark - 7/2-6/3 1Df- Ind. Dev. Clan - 40-80 his training- Opserved Infrastructure management-posting of Bldy Management- Contraction 19 Management - Posting of Bldy Management	Δ,				

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	QUALITY SYSTEM QUESTIONNAIRE	Apper.				53
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ASSESSMENT QUESTIONS	KEY Requirements	s	CAR Number Ma or mi	N/A	₩E
6.	RESOURCE MANAGEMENT					
6.1	Provision of resources					
a	as the organization determined and provided the resources needed: to implement and maintain the quality management system and continually improve its effectiveness? And to enhance customer satisfaction by meeting customer requirements?				. •	V
6.2	Human resources	l			1	
6.2.1	General					
02 Ar		yerd	5	ect pl	age	en
6.2.2	Competence, awareness and training requirements	U .	· ·	<i>,</i> ,	0	
a) b) c) d)	determine the necessary competence for personnel performing work affecting product quality (2) ? Substituting the necessary competence for personnel performing work affecting product quality (2) ? Substituting the necessary competence for personnel performing work affecting product quality (2) ? Substituting the necessary competence (2) ? Substituting the necessary competence (3) ? Substituting the necessary compet	Acxua or	Say	ssma jva ka	ties	die
6.3	Infrastructure Invitary death	girmen				\neg
cor infi a) b)	ness the organization determine, provide and maintain the infrastructure needed to achieve informity to product requirements? rastructure includes, as applicable: buildings, workspace and associated utilities?-left requirement process equipment (both hardware and software)? And were group supporting services (such as transport or communication)?	Consuer a	S)	t		
6.4	Work environment					_
	es the organization determine and manage the work environment needed to achieve informity to product requirements?	P	کٰ			
<u>Note</u> : dischar	Factors that may affect the comformity of the product include temperature, humidity, lighting, cleanliness ge, etc.	s, protection f	rom el	ectrostatic		
1) Rev	nce Notes view training Records and Plan (status of the current year and of the previous year)— e examples of methods used to determine competence (e.g.: competence matrix, multiskill,) riew training certificates for the certified personnel and training records (internal and external training	Defeated ing courses	de) cano	toster Lester	s.) euv	1
Object Oliver	viewed from sessed of the performance it better the performance in the performan	jales garage Tjell	set de ne	ion, extification of. Dazity	zing	

	ASSESSMENT QUESTIONS	KEY Requirements	s	CAR Number Ma or mi	N/A	N/E
7.	PRODUCT REALIZATION					
7.1	Planning of product realization					
	s the organization plan and develop the processes needed for product realization? 4.1)		5			
	anning of product realization consistent with the requirements of the other processes of the ty management system (see 4.1)?		5	1		
03 in pla a)	nning product realization, does the organization determine the following, as appropriate : quality objectives and requirements for the product?		5		'	
b)	the need to establish processes, documents, and provide resources specific to the product?					
c)	required verification, validation, monitoring, inspection and test activities specific to the product and the criteria for product acceptance?					
d)	records needed to provide evidence that the realization processes and resulting product meet requirements (see 4.2.4)?	P	'			1
e)	the identification of resources to support operation and maintenance of the product?	•	5			
04 Is the c	output of this planning in a form suitable for the organization's method of operations?		5			

Objective evidence-assessed / Observations / Comments / N/A explanation	
Objective evidence assessed / Observations / Comments / N/A explanation MSG - Subrite Payloads integration and afertions Dere	ree
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Endorsement table Stable CI COFR payords office endorseme	ext
Content. 414 CS & Surround Medical Process, On Orleit eruse Procedures and/or ground, Schedule	
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<u> </u>	

original Supply

QUALITY SYSTEM QUESTIONNAIRE

	ASSESSMENT QUESTIONS	Requirements		Number Ma or mi	IVA	IVE
7.2	Customer-related processes					
7.2.1	Determination of requirements related to the product	,				
	s the organization determine : requirements specified by the customer, including the requirements for delivery and post-delivery activities ?	М				
, -	requirements not stated by the customer but necessary for specified or intended use, where known?					
,	statutory and regulatory requirements related to the product? and any additional requirements determined by the organization?					
7.2.2	Review of requirements related to the product					
06 Do	es the organization review the requirements related to the product?		/			
cus cha a)	the review conducted prior to the organization's commitment to supply a product to the tomer (e.g. submission of tenders, acceptance of contracts or orders, acceptance of nges to contracts or orders) and does it ensure that (1): product requirements are defined?	P				
c) 1	the organization has the ability to meet the defined requirements? And risks (e.g., new technology, short delivery time scale) have been evaluated?					,
	records of the results of the review and actions ansing from the review maintained 4.2.4) (2)?		/			
	ere the customer provides no documented statement of requirement, are the customer irements confirmed by the organization before acceptance?					
docu	re product requirements are changed, does the organization ensure that relevant iments are amended and that relevant personnel are made aware of the changed irements?	P				
	some situations, such as internet sales, a formal review is impractical for each order. Instead information such as catalogues or advertising material.	the review	can co	over the rele	evant	
7.2.3	Customer communication					
with	s the organization determine and implement effective arrangements for communicating customers in relation to : roduct information ?					
	nquiries, contracts or order handling, including amendments ? and ustomer feedback, including customer complaints ?					
) Check	ce Notes < that all affected functions are involved in the review examples					
bjectiv	re evidence assessed / Observations / Comments / N/A explanation					
	Facility Project - Buil hoject Document					
	Rej # 6765					
Q 1	RL facility - Reviewed Certract actuitus @ ECLS	s proj secover	ram 1 -			
	/ 1 / 1	- SRI	,		trec	inde
	T .		7			

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	QUALITY STSTEM QUESTIONNAIRE			·		
ł 	ASSESSMENT QUESTIONS	KEY Requirement	s	CAR Number Ma or mi	N/A	N/E
7.3	Design and development					
7.3.1	Design and development planning NG 8823-1	'	, , ,	·		, '
12 Doe	es the organization plan and control the design and development of product?		1			
a) b)	ng the design and development planning, does the organization determine: the design and development stages (1)? - in respect of organization, task sequence, mandatory steps, significant stages and method of configuration control, the review, venification and validation that are appropriate to each design and development stage? and	M	1		1	
	the responsibilities and authorities for design and development?		-		-	
foli	ere appropriate, due to complexity, does the organization give consideration to the owing activities: structuring the design effort Into significant elements? for each element, analyzing the tasks and the necessary resources for its design and development. Does This analysis consider an identified responsible person, design content, input data, planning constraints, and performance conditions. Is the input data specific to each element reviewed to ensure consistency with requirements?		~			
15 Doe	s the organization manage the interfaces between different groups involved in design and elopment to ensure effective communication and clear assignment of responsibility?		1			
16 ls pla	anning output updated, as appropriate, as the design and development progresses?		/			
spec	the different design and development tasks to be carried out defined according to cified safety or functional objectives of the product in accordance with customer for regulatory authority requirements (2) ?	Р	1			
7.3.2	Design and development inputs				·	
(3) ?	inputs relating to product requirements determined and are records maintained (see 4.2,4) hese inputs include:	М		,		
a) fu	inctional and performance requirements?					
	pplicable statutory and regulatory requirements?					
	here applicable, information derived from previous similar designs ? and ther requirements essential for design and development ?				.	
	nese inputs reviewed for adequacy ?		7			
	equirements completed, unambiguous and not in conflict with each other?		-			
l) Give a tasks 2) Give a	ce Notes at least an example of a completed design & development plan, or an example of one in pro and key events. an example w applicable input data (give examples)	ogress, that	identi	ifies the pla	nning	of
bjectiv	e evidence assessed / Observations / Comments / N/A explanation Facility Right- Brief Proj. Document 1509 Facility Rioj. Cost Estimate from 1570 Project Plegfs Document - Prop. Persearch Lab. Ju	*22"	(,	Code 6	763	
	Project Regt's Document - Prop. Perearch Lab. Je	ne Ob				

S: Satisfactory - CAR: Corrective action required - Ma: Major corrective action - mi: Minor corrective action

N/A: Not applicable - N/E: Not evaluated - P: Product - M: Management

Design bhases - documented on spread Shut as/ 30/40/90/finel review

Thurs too Jan Lindson ECLSS - water recover, off se generation WKly motso Verification (validation phase

SRR- > Rigertoffiches records of review COK-

David Whiten

Structual Design - ED23 - Oth I - OO! Rev C

OGS Project . (Oxyge Generator System)

La Requirement Perrier Project Plan - ECLISS - FD 21 - UV9 - Basic 7/10/61

Ges. Perrier - PDR/CBR documented on ECLISS / FD-21 Web-fite

Integrated Rock: Unive Processor - CBR 3/20-5/15/02

Verification

ERR-> ED as per std 555 ECR+ ED+ P/N ED23-2647 1 94411546-1

ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N
7.3 Design and development (continued)					
7.3.3 Design and development outputs					
21 Are the outputs of design and development provided in a form that enables verification against	T				_
the design and development input and approved prior to release?		/			
22 Do the design and development outputs :	М				
a) meet the input requirements for design and development?					
b) provide appropriate information for purchasing, production and for service provision?		/			
c) contain or reference product acceptance criteria ?				'	
d) specify the characteristics of the product that are essential for its safe and proper use? and					
 e) identify key characteristics, when applicable, in accordance with design or contract requirements? 					
23 Is all pertinent data required to allow the product to be identified, manufactured,	M				
inspected, used and maintained defined by the organization; for example:		/			
- drawings, part lists, specifications ?		/		.	
 a listing of those drawings, part lists, and specifications necessary to define the configuration and the design features of the product? 					
 information on material, processes, type of manufacturing and assembly of the 				1	
product necessary to ensure the conformity of the product ?					_
7.3.4 Design and development review	·			·,	
4 At suitable stages, are systematic reviews of design and development performed in accordance	M .				
with planned arrangements (see 7.3.1) to (1):			.	- 1	
a) evaluate the ability of the results of Design and development to meet requirements?			.		
 b) identify any problems and propose necessary actions ? and c) authorize progression to the next stage ? 		•		1	
				-+	
5 Do participants in such reviews include representatives of functions concerned with the design and development stage(s) being reviewed ?	ī	/	·		
		7			
6 Are records of the results of the reviews and any necessary actions maintained (see 4.2.4)?	1				
7.3.5 Design and development verification					
7 Is verification performed in accordance with planned arrangements (see 7.3.1) to ensure that	1.				
the design and development outputs have met the design and development input requirements?		+			
Are records of the results of the reviews and any necessary actions maintained (see 4.2.4)?	^				
lote: Design and/or development verification may include activities such as: - performing alternative calculations - comparing the new design with a similar proven design, if available - undertaking tests and demonstrations, and - reviewing the design stage documents before release.					
Guidance Notes					
) Give evidence of reviews					
bjective evidence assessed / Observations / Comments / N/A explanation					
Des Revino - 60% 12/7/01 Output - D 30% 9/7/01 Construct	up F.	AC	M419	9	
3 0% 9/2/01 Construct	in Sp	u.	Appr	r	
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S: Satisfactory - CAR: Corrective action required – Ma: Major corrective action – mi: Minor corrective action N/A: Not applicable - N/E: Not evaluated - P: Product - M: Management

QUALITY SYSTEM QUESTIONNAIRE	1,1			unding s	i.
ASSESSMENT QUESTIONS	KEY Requirements	` S	CAR Number Ma or mi	N/A	N
7.3 Design and development (continued)				• •	
7.3.6 Design and development validation	1				,
29 Is design and development validation performed in accordance with planned arrangements (see 7.3.1) to ensure that the resulting product is capable of meeting the requirements for the specified application or intended use, where known?	P	/			
Wherever practicable, is validation completed prior to the delivery or implementation of the Product?	·	1	1		
Are records of the results of validation and any necessary actions maintained (see 4.2.4)?	1	/		-	,
Design and/or development validation follows successful design and/or development ventication. Validation is normally performed under operating conditions. Validation is normally performed on the final product, but may be necessary in the earlier stages pri- Multiple validations may be performed if there are different intended uses.	or to product o	compl	etion.		
7.3.6.1 Documentation of design and/or development verification and validation					
· · · · · · · · · · · · · · · · · · ·					
2 At the completion of design and/or development, does the organization ensure that reports, calculations, test results, etc., demonstrate that the product definition meets the specification requirements for all identified operational conditions?	M				
reports, calculations, test results, etc., demonstrate that the product definition meets the specification requirements for all identified operational conditions?	M .	V			
reports, calculations, test results, etc., demonstrate that the product definition meets the specification requirements for all identified operational conditions? 3.6.2 Design and/or development verification and validation testing	М Р				-
reports, calculations, test results, etc., demonstrate that the product definition meets the specification requirements for all identified operational conditions? 7.3.6.2 Design and/or development verification and validation testing Where tests are necessary for verification and validation, are these tests planned, controlled, reviewed, and documented to ensure and prove the following (1): a) test plans or specifications identify the product being tested and the resources being used, define test objectives and conditions, parameters to be recorded, and relevant					
reports, calculations, test results, etc., demonstrate that the product definition meets the specification requirements for all identified operational conditions? 7.3.6.2 Design and/or development verification and validation testing Where tests are necessary for verification and validation, are these tests planned, controlled, reviewed, and documented to ensure and prove the following (1): a) test plans or specifications identify the product being tested and the resources being used, define test objectives and conditions, parameters to be recorded, and relevant acceptance criteria? b) test procedures describe the method of operation, the performance of the test, and the recording of the results? c) the correct configuration standard of the product is submitted for the test? d) the requirements of the test plan and the test procedures are observed?					

See previous 2 pages for program - ECLSS pgm E023-OWF 001 - Structured Des. Verified Validation of Durgs -

QUALITY SYSTEM QUESTIONNAIRE	: ,				.
ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number	N/A	N/E
	L		Ma or mi		

7.3 Design and development (continued)

7.	7.3.7 Control of design and development changes								
34	Are design and development changes identified and records maintained ?		/						
35	Are the changes reviewed, verified and validated, as appropriate, and approved before implementation (1)?	Р	/	·					
36	Does the review of design and development changes include evaluation of the effect of the changes on constituent parts and product already delivered?	Р	/						
37	Does the organization's change control process provide for customer and/or regulatory authority approval of changes, when required by contract or regulatory requirement?			,					
38	Records of the results of the review of changes and any necessary actions maintained (see 4.2.4)?								

Guidance Note

1) Give an example

Objective evidence assessed / Observations / Comments / N/A explanation

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	QUALITY SYSTEM QUESTIONNAIRE			У		
7	ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	NE
7.4	Purchasing 11 N WL					
7.4.1	Purchasing process MF 5360. 1	1				,
1	es the organization ensure that purchased product conforms to specified purchase quirements?	Р	ゔ			
ı	e type and extent of control applied to the Supplier and the purchased product dependent the effect of the purchased product on subsequent product realization or the final product?	4	ni	mi		
incl	he organization responsible for the quality of all products purchased from suppliers, uding customer-designated sources ? பூட்ட		S		,	
acc	s the organization evaluate and select Suppliers based on their ability to supply product in ordance with the organization's requirements?	, y	no	mi		
	criteria for selection, evaluation and re-evaluation established by Salicilation	st es	KE	onters	E	
maii	records of the results of evaluations and any necessary actions aligning from the evaluation of the second stained (see 4.2.4)? - RUCLAN WELL SECONDARY		S			
	s the organization : Maintain a register of approved Suppliers that includes the scope of the approval (1) ?	M .	5	1		
b)	Periodically review Suppliers performance and use the records of these reviews as a basis for establishing the level of controls to be implemented (2)? Define the necessary actions to take when dealing with Suppliers that do not meet	acqu	afile	ton		
c) d)	requirements ? Controlled Ensure where required that both the organization and all Suppliers use customer-		$ \cdot $	'		
e)	approved special process sources ?- W/A. Ensure that the function having responsibility for approving Supplier quality,		8			
	systems has the authority to disapprove the use of sources ? - Les por Contro	ett				
1) Revi 2) Revi	ew current list of approved Suppliers Julius (e.g.: supplier rating, etc.) Performance / measurement system (e.g.: supplier rating, etc.)	wita	LIL	24		just
Objecti	ve evidence assessed / Observations / Comments / N/A explanation) NAON QUALTS MUT 330. 1, Capability and Gl. vitial assessment, monitar performance itial parker Michols, Sierra John, Mitalix pur parker Michols, Sierra John, Mitalix	ys Iso Redu	o Ge qui vdit	201 acity:	34	jen.
A	L'Erified, Clarine Culation of strip					0
2/18/0	A Still auditing ISO 9001:1994. Witton Strategy is determined prior to December Sichalder requirements Deared for	likelati 1 tol 1	an N	i ast.O	er A	store
10	A -+ WALL EDWINE 1 19 AN 12 INVEST FARE JOH		Lax	F PAR	A j	4
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Inse	quences of Deep Performance. altion a	epen Do	ster est	tel	tif	tel
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		ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
16 Does purchasing information describe the product to be purchased, including where appropriate (1): a) requirements for approval of product, procedures, processes and equipment? 2 g.p. b) requirements for qualification of personnel? c) quality management system requirements? d) the name or other positive identification, and applicable issues of specifications, drawings, process requirements, inspection instructions and other relevant technical data? e) requirements for design, test, examination, inspection and related instructions for acceptance by the Organization? f) requirements for test specimens (e.g., production method, number, storage conditions) for design approval inspection, investigation or auditing? g) requirements relative to: - supplier notification to Organization of possible records of and arrangements for the supplier to notify the Organization of changes in product and/or process definition and, where required, obtain organization approval? i) right of access by the organization, their customer, and authorities to all facilities involved in the order and to all applicable records? and file involved in the order and to all applicable records? and file involved in the order and to all applicable records? and file involved in the order and to all applicable records? and file involved in the order and to all applicable records? and file involved in the order and to all applicable records? and file involved in the order and to all applicable records? and file involved in the order and to all applicable records? and file involved in the order and to all applicable records? and file involved in the order and to all applicable records? and file involved in the order and to all applicable records? and file involved in the order and to all applicable records? and file involved in the order and to all applicable records? and file involved in the order and to all applicable records? and file involved in the order and to all applicable records? and file involved in the order and to all applicabl	7.4						
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S: Satisfactory - CAR: Corrective action required - Ma: Major corrective action - mi: Minor corrective action N/A: Not applicable - N/E: Not evaluated - P: Product - M: Management

QUALITY SYSTEM QUESTIONNAIRE ASSESSMENT QUESTIONS	KEY Requirements	\$	CAR Number	N/A	N/E
7.4 Purchasing (continued)			Ma or mi	<u> </u>	
7.4.3 Verification of purchased product	ı				'
B Does the organization establish and implement the inspection or other activities necessary for ensuring that purchased product meets specified purchase requirements, they may include obtaining objective evidence of the quality of the product from suppliers (e.g., accompanying documentation, certificate of conformity, test reports, statistical records, process control, inspection and audit at supplier's premises, review of the required documentation, inspection of products upon receipt, and, delegation of verification to the supplier, or supplier certification?	P	5	•		
Is purchased product held until it has been verified as conforming to specified requirements unless it is released under positive recall procedure?		5	,	'	
Where the organization utilizes test reports to verify purchased product, is the data in those reports acceptable per applicable specifications (1) ?		S			
Does the organization periodically validate test reports for raw material (1) ?					
Where the organization delegates verification activities to the supplier, are the requirements for delegation defined and a register of delegations maintained (1)?		S			
Where the organization or its customer intends to perform verification at the supplier's premises, does the organization state the intended verification arrangements and method of product release in the purchasing information?		5			
Where specified in the contract, is the customer or the customer's representative afforded the right to verify at the supplier's premises and the organization's premises that subcontracted product conforms to specified requirements?		S			
It is ensured that verification by the customer is not used by the organization as evidence of effective control of quality by the supplier (it does not absolve the organization of the responsibility to provide acceptable product, nor shall it preclude subsequent rejection by the customer)?	(S		,	
uidance Note Give an example P/N PNC 55 H90 R9 FS, R280 222 000	2,5 V8	32	5500	-/	<i>\$</i> /
pjective evidence assessed / Observations / Comments / N/A explanation Whether Receptains / Comments / N/A explanation 10 10 10 10 10 10 10 10 10 10 10 10 10 1					
letoild instruction with lack rece Periodic testing of raw materials)	E)			
IAR 4224 606PTG, 303, 416	,				

S: Satisfactory - CAR: Corrective action required - Ma: Major corrective action - mi: Minor corrective action N/A: Not applicable - N/E: Not evaluated - P: Product - M: Management

7.5. Production and service provision 7.5.1 Control of production and service provision 85 Does planning consider, as applicable: - the establishment of process controls and development of control plans where key characteristics have been identified This Description of the identification of in-process verification points when adequate verification of processes controls and a later stage of realization by the identification of in-process verification points when adequate verification of processes (see 1.5.2). I left the stage of realization by the interest of the design, manufacture, and use of tooling so that variable measurements can be taken, particularly for key chapacteristics, and - special processes (see 7.5.2). I left the spec		ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
Does planning consider, as applicable: - the establishment of process controls and development of control plans where key characteristics have been identified the plantification of in-process verification points when adequate verification of points of the verification of an adequate verification of points of the points of include, as applicable: 3. Description of information that describes the characteristics of the product of included and points of the availability of information that describes the characteristics of the product of received points of the availability of information that describes the characteristics. Split orders, nonconforming product of release delivery and post-delivery activities? 3. Description of the prevention, delevion, and removal of foreign objects? Pull information of information when a supplies such as water, compressed air, electricity and chemical products to the extent they affect product quality? and the point points of the points	7.5	Production and service provision					
key characteristics have been identified the including of the identification of in-process verification points when adequate verification of proconformance cannot be performed at a later stage of realization processes of the processes of the processes of the processes of the processes (see 7.5.2). I was a special product on the second that describes the characteristics of the product? I was a supplied to the availability of information that describes the characteristics of the product? I was a special product of the was a special product of the was a special product of the product quality and use of monitoring and measurement? I was a supplied to the product quality of an a special product of the product quality and product of the provision for the prevention, detection, and removal of foreign objects? Pull ratio for was a special product of the product quality? and full product of the provision of the prevention of the prevention of the product quality? I was a special product of the product quality? I was a special product of the provision of the product quality? I was a special product of the provision of the product quality? I was a special product of the provision of the product quality? I was a special product of the provision of the product quality? I was a special product of the provision of the product quality? I was a special product of the provision of the product quality? I was a special	7.5.1	Control of production and service provision	· .				
bjective evidence assessed / Observations / Comments / N/A explanation outload optications Monitoring msc Dlan 202 IR Plan Mibrogravity Science Glavekay 9/396:	56 Does 57 Does conc Do t a) b) c) d) e) f) g) h)	the establishment of process controls and development of control plans where key characteristics have been identified the identification of in-process verification points when adequate verification of conformance cannot be performed at a later stage of realization the design, manufacture, and use of tooling so that variable measurements can be taken, particularly for key characteristics, and special processes (see 7.5.2). The organization plan and carry out production and service provision under controlled ditions (1). The availability of information that describes the characteristics of the product? The availability of work instructions, as necessary? The availability of work instructions as necessary? The availability and use of monitoring and measuring devices? The availability and use of monitoring and measurement? The implementation of molitoring and measurement? The implementation of release, delivery and post-delivery activities? The implementation of release, delivery and post-delivery activities, split orders, nonconforming products of the product during manufacture (e.g., parts quantities, split orders, nonconforming products of the provision operations have been completed as pianned, or as otherwise documented and authorized of the provision for the prevention, detection, and removal of foreign objects? Pull Manufacturing and control of utilities and supplies such as water, compressed air, electricity and chemical products to the extent they affect product quality? and increteria for workmanship, which shall be stipulated in the clearest practical manner	eudert.	S S S	or ment of	The second	on A
LOW MISTO-LOV-30 TO INGUENT GOTCLINGOT	bjectiv	pe evidence assessed / Observations / Comments / N/A explanation pad oplications / Monitoring. Dian 802. IR Plan Mibrogranity Science	e Slo	e de	kay	9/3	26

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QUALITY SYSTEM QUESTIONNAIRE					
ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
7.5 Production and service provision (continued)					
7.5.1.1 Production documentation					'
58 Are production operations carried out in accordance with approved data?		5			
59 Does the data contain as necessary: a) drawings, parts lists, process flow charts including inspection operations, production documents (e.g., manufacturing plans, traveler, router, work order, process cards); and inspection documents (see 8.2.4.1) ? and b) a list of specific or non-specific tools and numerical control (NC) machine programs			,		
required and any specific instructions associated with their use? NO NOCK	nes	S		,	eri T
7.5.1.2 Control of production process changes					
60 Are persons authorized to approve changes to production processes identified (1) ?	M	5			
61 Has the organization identified and obtained acceptance of changes that require customer and/or regulatory, authority approval in accordance with contract or regulatory requirements?		S			
62 Are changes affecting processes, production equipment, tools and programs documented?	P	5			. '
63 Are procedures available to control their implementation ?	'	5	.,		
64 Are the results of changes to production processes assessed to confirm that the desired effect has been achieved without adverse effects to product quality?	P	5			
7.5.1.3 Control of production equipment, tools and numerical control (N.C.) machine program	ms				
65 Are production equipment, tools and programs validated prior to use and maintained and inspected periodically according to documented procedures ?	P			\perp	4
66 Does validation prior to production use include verification of the first article produced to the design data/specification ?	Р	' ·			4
67 Are storage requirements, including periodic preservation/condition checks, established for production equipment or tooling in storage?			<u>. </u>		2
7.5.1.4 Control of work transferred, on a temporary basis, outside the organization's facilities	s		·		
68 When planning to temporarily transfer work to a location outside the organization's facilities, does the organization define the process to control and validate the quality of the work?	M				4
Guidance Notes 1) Clearly defined list or procedures Identified by released list	ts.				
Objective evidence assessed / Observations / Comments / N/A explanation	SPIC	É			
Objective evidence assessed / Observations / Comments / N/A explanation Objective evidence assessed / Observations / Comments / N/A explanation Objective evidence assessed / Observations / Comments / N/A explanation Objective evidence assessed / Observations / Comments / N/A explanation Objective evidence assessed / Observations / Comments / N/A explanation Objective evidence assessed / Observations / Comments / N/A explanation Objective evidence assessed / Observations / Comments / N/A explanation Objective evidence assessed / Observations / Comments / N/A explanation	Ysei	DI	Len	ر	
Mingel are Controlled, seeding					
place.					
7 .					

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		QUALITY SYSTEM QUESTIONNAIRE			• • • • • • • • • • • • • • • • • • • •		
		ASSESSMENT QUESTIONS	KEY Requirements	s	CAR Number Ma or mi	N/A	NÆ
7.5	5	Production and service provision (continued)					
7.5	.1.5	Control of service operations					
	Who a) b) c) d) e)	ere servicing is a specified requirement, do service operation processes provide for : a method of collecting and analyzing in-service data ? actions to be taken where problems are identified after delivery, including investigation, reporting activities, and actions on service information consistent with contractual and/or regulatory requirements (1) (2) ? the control and updating of technical documentation ? the approval, control, and use of repair schemes (3) ? and, the controls required for off-site work (e.g., organization's work undertaken at the				1	
7.5.2	2	customer's facilities) ? Validation of processes for production and service provision		İ		1	
	resu any s er v	s the organization validate any processes for production and service provision where the alting output cannot be verified by subsequent monitoring or measurement (This includes processes where deficiencies become apparent only after the product is in use or the ice has been delivered) (4)? ese processes are frequently referred to as special processes.	P				\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
71	Does	s validation demonstrate the ability of these processes to achieve planned results?					V
	a)	the organization established arrangements for these processes including, as applicable: defined criteria for review and approval of the processes? -qualification and approval of special processes prior to use?	M				1
. t	,	approval of equipment and qualification of personnel ?		.			
C	,	use of specific methods and procedures? - control of the significant operations and parameters of special processes in accordance with documented process specifications and changes thereto (5) ?					
; d	d)	requirements for records (see 4.2.4) ?					
е	e) :	and revalidation?				.]	V

Guidance Notes

- 1) Review reports issued following visits to the customer (technical support). Comment on method of collection of in service data. Examine some investigation reports
- 2) Review evidence of implementation of corrective and preventive actions.
- 3) Review evidence of what has been assessed (e.g.: maintenance manual, repair manual, information to customer)
- 4) Verify the existence of list of special processes.
- 5) Give examples

Objective evidence assessed / Observations / Comments / N/A explanation
7.5.2 Nat applicable to Programs audited Auringthis riesit.
7.5.1.5 Not applicable to Degrams audited.

	QUALITY SYSTEM QUESTIONNAIRE					
	ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
· 7.5	Production and service provision (continued)					
7.5.1.5	Control of service operations					
69 Wh a) b)	nere servicing is a specified requirement, do service operation processes provide for : a method of collecting and analyzing in-service data ? actions to be taken where problems are identified after delivery, including investigation, reporting activities, and actions on service information consistent with contractual and/or regulatory requirements (1) (2) ?				1	,
c) d) e)	the control and updating of technical documentation ? the approval, control, and use of repair schemes (3) ? and, the controls required for off-site work (e.g., organization's work undertaken at the customer's facilities) ?					
7.5.2	Validation of processes for production and service provision					
resu any serv	s the organization validate any processes for production and service provision where the ulting output cannot be verified by subsequent monitoring or measurement (This includes processes where deficiencies become apparent only after the product is in use or the vice has been delivered) (4)? Lesse processes are frequently referred to as special processes.	P				/
71 Doe	s validation demonstrate the ability of these processes to achieve planned results?	imple				/
a) b) c)	the organization established arrangements for these processes including, as applicable: defined criteria for review and approval of the processes? -qualification and approval of special processes prior to use? approval of equipment and qualification of personnel? use of specific methods and procedures? - control of the significant operations and parameters of special processes in accordance with documented process specifications and changes thereto (5)? requirements for records (see 4.2.4)? and revalidation?	M				

Guidance Notes

1) Review reports issued following visits to the customer (technical support). Comment on method of collection of in service data. Examine some investigation reports

2) Review evidence of implementation of corrective and preventive actions.

3) Review evidence of what has been assessed (e.g.: maintenance manual, repair manual, information to customer)

4) Verify the existence of list of special processes.

5) Give examples

Objective evidence assessed / Observations / Comments / N/A explanation

No evidence of special processes

	QUALITY SYSTEM QUESTIONNAIRE					
	ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
_	7.5 Production and service provision (continued) '					
	7.5.3 Identification and traceability					,
7	Where appropriate, has the organization identified the product by suitable means throughout product realization?		گ			
7	4 Does the organization maintain the identification of the configuration of the product in order to identify any differences between the actual configuration and the agreed configuration?		5			
-7	Has the organization identified the product status with respect to monitoring and measurement requirements?	220 0	5			
7	When acceptance authority media are used (e.g., stamps, electronic signatures, passwords), does the organization establish and document controls for the media (1) ?		S			
7			5			
7	According to the level of traceability required by contract, regulatory, or other established requirement, does the organization's system provide for (2): a) identification to be maintained throughout the product life? b) all the products manufactured from the same batch of raw material or from the same	P	5			
	manufacturing batch to be traced, as well as the destination (delivery, scrap) of all products of the same batch? c) in any assembly, the identity of its components and those of the next higher		/			
	assembly to be traced? d) in any given product, a sequential record of its production (manufacture, assembly, inspection) to be retrieved?		5	,		
/.5 79 80 81	Does the organization exercise care with customer property while it is under the organization's control or being used by the organization (3)? Has the organization identified, verified, projected and safeguarded customer property provided for use or incorporation into the product?		S S			
No	inspection.		prod	luction and	l/or	
1) 2) 3)	Give examples of method(s) used Give examples of traceability level applied (up and down) - PIN Derial number Identify types of product supplied by the customer.		<u>.</u>			
0125	jective exidence assessed / Observations / Comments / N/A explanation SOFT tag is utilized & Track and ID 4 to tag. tag. tag. guality Saytty ry 340, yearly X asf or terminated band proceedings fundament				kde	
Z	and Stand inventoring- Alkan 2 where Stamp, do	est Dta	up,	Tech	w	

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QUALITY SYSTEM QUESTIONNAIRE					
ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	NÆ
7.5 Production and service provision (continued)					
7.5.3 Identification and traceability	1				'
73 Where appropriate, has the organization identified the product by suitable means throughout product realization?		/			
74 Does the organization maintain the identification of the configuration of the product in order to identify any differences between the actual configuration and the agreed configuration?	P '	V	1		
75 Has the organization identified the product status with respect to monitoring and measurement requirements?		/			
76 When acceptance authority media are used (e.g., stamps, electronic signatures, passwords), does the organization establish and document controls for the media (1) ?	1	/	,		
77 Where traceability is a requirement, does the organization control and record the unique identification of the product (see 4.2.4)?		/	,		
78 According to the level of traceability required by contract, regulatory, or other established requirement, does the organization's system provide for (2):	P				
a) identification to be maintained throughout the product life ?		/			
 all the products manufactured from the same batch of raw material or from the same manufacturing batch to be traced, as well as the destination (delivery, scrap) of all products of the same batch? 					•
c) in any assembly, the identity of its components and those of the next higher assembly to be traced?			. '1		
d) In any given product, a sequential record of its production (manufacture, assembly, inspection) to be retrieved?				-	
Note: In some industry sectors, configuration management is a means by which identification and trace	ceability is m	ainta	ined.		
7.5.4 Customer property					
79 Does the organization exercise care with customer property while it is under the organization's control or being used by the organization (3)?					
80 Has the organization identified, verified, protected and safeguarded customer property provided for use or incorporation into the product?		/	,		
Does the organization define methods to identify and record customer products that are lost, damaged or otherwise made unusable and report such to the customer?	,				
Note: Customer property one include intelligence property including quaternay four labely date and	for to the state of				_

Note: Customer property can include intellectual property, including customer furnished data used for design, production and/or inspection.

Guidance Notes

1) Give examples of method(s) used

2) Give examples of traceability level applied (up and down)

Identify types of product supplied by the customer.

Objective evidence assessed / Observations / Comments / N/A explanation
7.5.13 - Roduct - output of analysis - reports - Test results identified as to part a document to along with status of same
7.5.4. Documents - proprietary. Syst. Qual. Levien. Alenia - CLT-EQ-AJ-0007

numerous documents maintained in booked locked from

MPLM Drawing

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QUALITY SYSTEM QUESTIONNAIRE					
ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	NÆ
7.5 Production and service provision (continued)					
7.5.5 Preservation of product					
82 Does the organization preserve the conformity of product during internal processing and delivery to the intended destination?		5	,		
83 Does the preservation include identification, handling, packaging, storage and protection?		5			
84 Does preservation also apply to the constituent parts of a product ?		3			
 Does preservation of product also Include, where applicable in accordance with product specifications and/or regulations, provisions for: a) cleaning? b) prevention, detection and removal of foreign objects? c) special handling for sensitive products? d) marking and labeling including safety warnings? Hazmat Labels e) shelf life control and stock rotation? Hs f) special handling for hazardous materials? Hazmat Battery recy 	P eartain				
86 Does the organization ensure that documents required by the contract/order to accompany the product are present at delivery and are protected against loss and deterioration?		5			:
Objective evidence assessed / Observations / Comments / N/A explanation Flight Standards Lollacula Observations / Comments / N/A explanation Objective evidence assessed / Observations / Comments / N/A explanation Objective evidence assessed / Observations / Comments / N/A explanation Objective evidence assessed / Observations / Comments / N/A explanation Objective evidence assessed / Observations / Comments / N/A explanation Objective evidence assessed / Observations / Comments / N/A explanation Objective evidence assessed / Observations / Comments / N/A explanation Objective evidence assessed / Observations / Comments / N/A explanation Objective evidence assessed / Observations / Comments / N/A explanation	ved	allay	ssen	nli	ke

Objective evidence assessed / Observations / Comments / N/A explanation

I light Standards forlawled. Observed assembled

in test areas. Orticles are appropriately

Protected. ESD Program in Place. Species

Manalina of flight hardware.

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QUALITY SYSTEM QUESTIONNAIRE					
ASSESSMENT QUESTIONS	KEY Requirements	s	CAR Number Ma or mi	N/A	N/E
Control of monitoring and measuring devices MVG-8730.5					
7 Does the organization determine the monitoring and measurement to be undertaken and the monitoring and measuring devices needed to provide evidence of conformity of product to determined requirements (see 7.2.1) (1)?	Р	Ŋ			•
Does the organization maintain a register of these monitoring and measuring devices, and define the process employed for their calibration including details of equipment type, unique identification, location, frequency of checks, check method and acceptance criteria? Ote: Monitoring and measuring devices include, but are not limited to: test hardware, test oftware, automated test equipment (ATE) and plotters used to produce inspection data. It is includes personally owned and customer supplied equipment used to provide evidence for product conformity.	M	S			
Does the organization establish processes to ensure that monitoring and measurement can be carried out and are carried out in a manner that is consistent with the monitoring and measurement requirements?		S			
Does the organization ensure that environmental conditions are suitable for the calibrations, inspections, measurements and tests being carried out?	ween	Sul	al		
a) calibrated or verified at specified intervals, or prior to use, against measurement standards traceable to international or national measurement standards; where no such standards exist, the basis used for calibration or verification shall be recorded (2)?		S	For the second s		
c) identified to enable the calibration status to be determined? d) safeguarded from adjustments that would invalidate the measurement result? e) protected from damage and deterioration during handling, maintenance and storage? f) recalled to a defined method when requiring calibration?	tetoer	34	weep	yel.	ng
2 Does the organization assess and record the validity of the previous neasuring results when the equipment is found not to conform to requirements?	- 1	5			
Does the organization take appropriate action on the equipment and any product affected ?	P	5			
Are records of the results of calibration and verification maintained (see 4.2.4)? When used in the monitoring and measurement of specified requirements, is the ability of computer software to satisfy the intended application confirmed?	P		•	1	
Is this undertaken prior to initial use and reconfirmed as necessary?		$ec{\varsigma} +$		-	
Review that the organization has a process for ensuring the capability of measurement system (e.g. Analysis, Gage Repeatable & Reproducibility, etc.) Ensure the links to the recognized international / national standard.	_		, Resolution	¥	
Directive evidence assessed / Observations / Comments / N/A explanation wified States as Soposof, M629829, M620113, M630113, M630	5577,	191	Sage Siger of	29 , sui	
empa heemidity recorders in licelaing and a	thread	ga	geo, pe	udy	gre

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QUALITY SYSTEM QUESTIONNAIRE			,	
ASSESSMENT QUESTIONS KEY Requirem	S	CAR Number	N/A	N/E
MEASUREMENT, ANALYSIS AND MIPROVEMENT		Ma or mi	<u> </u>	
8.1 General 1010-08 Planning howevery .				
Does the organization plan and implement the monitoring, pleasurement, analysis and improvement processes needed (1): a) to demonstrate conformity of the product? The product of the product of the quality management system, and of the product of the quality management system of the quality management system of the quality management system of the product and depending on the specified requirements, statistical of support: design verification (e.g., reliability, maintainability, safety);	Stechniq	Zang O	Ts be used	d
• selection and Inspection of key characteristics; • process capability measurements; • statistical process control; • design of experiment; nspection – matching sampling rate to the criticality of the product and to the process capability; allure mode and effect analysis.	Obj.	eteur,	fac	
Give examples of data List Feguerement 3.7, 6/13/13, Engineering bjective evidence assessed / Observations / Comments / N/A explanation	1902 8.2.9	MINTED	in Z	lan
) kli tior	erecti De	erse upp	206
taxdard Process is itilizato plan Jest identifico regiuremento se test matrix.	tesi	locue. t pa	ker lan	KEL
acilité oferation Procedieres, test Checkert Prosest Preparation Photos Cere cetilines, TD 40 sellectes Cere cetilines, TD 40 soldieres Sestructeons, Mandatores Inspection par enforce Conflicence, to processes and system	nna.	AB o 1 D 0	7.	1 .
enforce Conflicence, to processes and signed recoursement fist. vironmental Polletion Presention Plan Upol ring new product Planning EPA issues are was it dedining review.	rte	304 m	rs pe	
H Redinito reveere.				

	QUALITY SYSTEM QUESTIONNAIRE					
	ASSESSMENT QUESTIONS	KEY Requirements	s	CAR Number Ma or mi	N/A	NE
8.2	Monitoring and measurement (continued)					
8.2.1	Customer satisfaction	+		-		
organ	ne of the measurements of the performance of the quality management system, does the nization monitor information relating to customer perception as to whether the organization net customer requirements (1)?		1			
04 Are th	ne methods for obtaining and using this information determined?		1	,		
8.2.2	Internal audit MPG 1280, C Rev-E		•			
qualit a) co	the organization conduct internal audits at planned intervals to determine whether the y management system (2): onforms to the planned arrangements (see 7.1), to the requirements of this International tandard and to the quality management system requirements established by the	M		NC		Car
O	reganization? and to the quality management system requirements established by the reganization? and effectively implemented and maintained?					
6 Is an	audit program planned, taking into consideration the status and importance of the sses and areas to be audited, as well as the results of previous audits?		/			,
7 is the	audit criteria, scope, frequency and methods defined?		/			
	the selection of auditors and conduct of audits ensure objectivity and impartiality of the process (3) ?	,	/	eq.		
9 Does t	the organization ensure internal auditors do not audit their own work?		1			
	e responsibilities and requirements for planning and conducting audits, and for reporting and maintaining records (see 4.2.4) defined in a documented procedure?		√			
	e management responsible for the areas being audited ensure that actions are taken t undue delay to eliminate detected nonconformities and their causes?	М	V			
	low-up activities include the verification of the actions taken and the reporting of ation results (see 8.5.2) (4)?		1			
	etalled tools and techniques developed such as check sheets, process flowcharts, similar method to support audit of the quality management system requirements?		1			
	e selected internal audit tools acceptable in measuring the effectiveness of the all audit and overall organization performance?		1			
Do inte	ernal audits also meet contract and/or regulatory requirements ?					

Guidance Notes

- 1) Give examples of how customer's satisfaction is measured, committed, and acted upon.
- 2) Review of audit plan (status of the previous year and progress of the current year).
- Check the list of approved auditors.
- 4) Review type of audits (questionnaire, synthesis, circulation, request for corrective actions, corrective actions follow-up).

Objective evidence assessed / Observations / Comments / N/A explanation

auditschedul - Audita objecturty - independence

fudit # ED 05200401-

PS 12200401 - Obs, obs. concerns, NC's - Reviewed Andre Ryort NC #605

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QUALITY SYSTEM QUESTIONNAIR	E				
ASSESSMENT QUESTIONS	KEY Requirement	s	CAR Number Ma or mi	N/A	NÆ
8.2 Monitoring and measurement (continued)					
8.2.3 Monitoring and measurement of processes					
16 Does the organization apply suitable methods for monitoring and, where applicable measurement of the quality management system processes?	<u> </u>	,5			
17 Do these methods demonstrate the ability of the processes to achieve planned results?	LEPA/EE				
18 When planned results are not achieved, is correction and corrective action taken, appropriate, to ensure conformity of the product?		5			
19 In the event of process nonconformity, does the organization (1):	P	S			
a) take appropriate action to correct the nonconforming process?)			· [
b) evaluate whether the process nonconformity has resulted in product nonconformity and		1			
c) identify and control the nonconforming product in accordance with clause 8.3 ?		5			
8.2.4 Monitoring and measurement of product -				1	
20 Does the organization monitor and measure the characteristics of the product to verify the product requirements have been met?	at P	S			
21 Is this carried out at appropriate stages of the product realization process in accordance wi the planned arrangements (see 7.1)?	th	S		·	
22 When key characteristics have been identified, are they monitored and controlled ?	P	2			
23 When the organization uses sampling Inspection as a means of product acceptance, the plan statistically valid and appropriate for use?	is	S			
24 Does the plan preclude the acceptance of lots visose samples have know nonconformities?	n	\$			
25 When required, is the plan submitted for customer approval?		S			1
26 Is product held until It has been inspected or otherwise verified as conforming to specified requirements, except when product is released under positive-recal procedures pending completion of all required measurement and monitoring activities?	//	S			
7 Is evidence of conformity with the acceptance criteria maintained ?		3			
28 Do records indicate the person(s) authorizing release of product (see 4.2.4)?	4	5			-
9 Is product release and service delivery held until all the planned arrangements see 7.1) have been satisfactorily completed, unless otherwise approved by a relevant authority and, where applicable, by the customer?		5			
The state of the s					=
uidance Note					
Give examples of non conformity (product, process,)	aline d	leas	Ė		
bjective evidence assessed / Observations / Comments / N/A explanation Into Unallysis to ensure Parameters of Disters The Unallysis to ensure Parameters of Disters The Unallysis to ensure Parameters of Disters The Unallysis to ensure Parameters The Unallysis to ensure Parameters The Top Ook, STF-FOP OIL Control Systems, STF-FOP-014 Control STF-FOP-	vis a nd Str Dest STF-F Michan	Chi vite Co.	ince of the	U stry	o de la constante de la consta

QUALITY SYSTEM QUESTIONNAIRE					
ASSESSMENT QUESTIONS	KEY Requirements		CAR Number Na or mi	N/A	N/E
8.2 Monitoring and measurement (continued)					
8.2.4.1 Inspection documentation also Sec. 8.2.4 MFG	8730	2			•
30 Are measurement requirements for product or service acceptance documented ?]	S			
31 Does this documentation, which may be part of the production documentation, include: a) Criteria for acceptance and/or rejection? ((1)) (1) (1) b) Where in the sequence measurement and testing operations are performed? ((1)) (1) c) a record of the measurement results? and ((1)) ((1)) ((1)) d) type of measurement instruments required and any specific instructions associated with their use?	P	5		-	
32 Do test records show actual test results data when required by the specification or acceptance test plan? 33 When required to demonstrate product qualification does the organization ensure that records provide evidence that the product meets the defined requirements?		S			
8.2.4.2 First article inspection	<u> </u>				\dashv
34 Does the organization's system provide process for the inspection, verification, and documentation of a representative item from the first production run of a new part, or following any subsequent change that invalidates the previous first article inspection result (1)?	P	5		,	
Guidance Note 1) Give examples of first article (new product and change). SPICE 96M	11900-	1-10	5,		
Objective evidence assessed Observations / Comments / N/A explanation Schnology Froof of Concept. See water	pg.	42	,		
				·- /	

QUALITY SYSTEM QUESTIONNAIRE						
ASSESSMENT QUESTIONS	KEY Requirement	S	CAR Number Ma or mi	N/A	N/E	
8.3 Control of nonconforming product 7D 10-001.						
Note: The term "nonconforming product" includes nonconforming product returned from a c	ustomer.					'
35 Does the organization ensure that product which does not conform to requirements is identified and controlled to prevent its unintended use or delivery?	Р	5				
36 Are the controls and related responsibilities and authorities for dealing with nonconforming product defined in a documented procedure?		5	,			1
37 Does the organization's documented procedure define the responsibility for review and authority for the disposition of nonconforming product and the process for approving personnel making these decisions ?		5				
 38 Does the organization deal with nonconforming product in one or more of the following ways by: a) taking action to eliminate the detected nonconformity? b) authorizing its use, release or acceptance under concession by a relevant authority and, where applicable, by the customer? c) taking action to preclude its original intended use or application? 	Р	5				
39 Does the organization prevent dispositions of use-as-is or repair, unless specifically authorized by the customer, if - the product is produced to customer design ? or - the nonconformity results in a departure from the contract requirements ? (Unless otherwise restricted in the contract, is organization-designed product, which is controlled via a customer specification, dispositioned by the organization as-use-as is or repair, provided the nonconformity does not result in a departure from customer-specified requirements ?)	yet .	5				
40 Is product dispositioned for scrap conspicuously and permanently marked, or positively controlled, until physically rendered unusable ?	Р	5				
41 Are records of the nature of nonconformities and any subsequent actions taken, including concessions obtained, maintained (see 4.2.4)?	·	5				
42 When nonconforming product is corrected, is it subject to re-verification to demonstrate conformity to the requirements?		5				
43 When nonconforming product is detected after delivery or use has started, does the organization take action appropriate to the effects, or potential effects, of the nonconformity?	Р	S				
44 In addition to any contract or regulatory authority reporting requirements, does the organization's system provide for timely reporting of delivered nonconforming product that may affect reliability or safety?	P	5				
45 Does notification include a clear description of the nonconformity, which includes as necessary, parts affected, customer and/or organization part numbers, quantity, and date(s) delivered ?		S				
Objective evidence assessed / Observations / Comments / N/A explanation OTPS is Utilized to Clother Merky Menley Withheld trap. OTPS is test Christians PLITPS-STF 1440-QM: TD 17725, STF 1469-QC: STF-1470-QT: TD 017 981. Ref Descharge: Deschar	DO DOO Seldon MUND 1003	179 3/3 UN	65 25/03 ° 26/03 ° 26/08/08/08/08/08/08/08/08/08/08/08/08/08/		7	

		QUALITY SYSTEM QUESTIONNAIRE					
		ASSESSMENT QUESTIONS	KEY Requirements	s	CAR Number Ma or mi	N/A	NE
8.4	1	Analysis of data					
46	Doe	es the organization determine, collect and analyse appropriate data to demonstrate the	М				,
		ability and effectiveness of the quality management system and to evaluate where continual rovernent of the effectiveness of the quality management system can be made?		1			
47		es this include data generated as a result of monitoring and measurement and from other vant sources?		1	ı		
48	Doe a)	s the analysis of data provide information relating to : customer satisfaction (see 8.2.1) (1) ?		1			
	b)	conformity to product requirements (see 7.2.1)?					
	c)	characteristics and trends of processes and products including opportunities for preventive action ? And					
	d)	suppliers?		٠.			

Guidance Note

1) Give examples and check how the organization measures the effectiveness.

Objective evidence assessed / Observations / Comments / N/A explanation

Observed data analysis - evidenced in Balanced Scorecard massara at management review dated 5/25/04

	QUALITY SYSTEM QUESTIONNAIRE				
	ASSESSMENT OLIESTIONS	KEY Requirements	S CAR Number Ma or mi	N/A	N/E
8.5	Improvement				
8.5	1 Continual improvement		· · · · · · · · · · · · · · · · · · ·	,	
49	Does the organization continually improve the effectiveness of the quality management system hrough the use of the quality policy, quality objectives, audit results, analysis of data, corrective and preventive actions and management review?				
8.5	2 Corrective action				
	coes the organization take action to eliminate the cause of nonconformities in order to prevent ecurrence (1)?	P	\$		
51	re Corrective actions appropriate to the effects of the nonconformities encountered?		5		
	recording of the results of the action taken (see 4.2.4)? reviewing corrective action taken? flow down of the corrective action requirement to a supplier, when it is determined				
8.5.	specific actions where timely and/or effective corrective actions are not achieved?	MERUSE	notices		_ .
	bes the organization determine action to eliminate the causes of potential nonconformities in der to prevent their occurrence (2)?	VI .			4
54 A	e preventive actions appropriate to the effects of the potential problems?				4
a b c					
Suic	ance Notes 96m)1900	-1-10	5-900,9	GM-	135
l) Se	ect a non-conforming part and use 52 a) through h) to check for effectiveness. $\frac{1}{2}$		CEDE	EV.	ľ
9	tive evidence assessed / Observations / Comments / N/A explanation OS disposition, roat lause analysis viewed Carretive actions Seconds Viewed Contractive actions of aldress of address of a decrease of a de			ses	2

	QUALITY SYSTEM QUESTIONNAIRE					
	ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/I
8.5	Improvement					
8.5.1	Continual improvement					
throu	s the organization continually improve the effectiveness of the quality management system ugh the use of the quality policy, quality objectives, audit results, analysis of data, corrective preventive actions and management review?					
8.5.2	Corrective action					
	the organization take action to eliminate the cause of nonconformities in order to prevent rence (1)?	Р				
51 Are C	Corrective actions appropriate to the effects of the nonconformities encountered ?					
a) r b) d c) e	documented procedure established to define requirements for : eviewing nonconformities (including customer complaints) ? etermining the causes of nonconformities ? valuating the need for action to ensure that nonconformities do not recur ?					
e) re f) re g) f1	etermining and implementing action needed? ecording of the results of the action taken (see 4.2.4)? eviewing corrective action taken? low down of the corrective action requirement to a supplier, when it is determined that the supplier is responsible for the root cause? and				1	
h) s	pecific actions where timely and/or effective corrective actions are not achieved ?			1		
.5.3	Preventive action			,		
	the organization determine action to eliminate the causes of potential nonconformities in to prevent their occurrence (2)?	М				
4 Are pr	eventive actions appropriate to the effects of the potential problems?					
a) de b) ev	ocumented procedure established to define requirements for : etermining potential nonconformities and their causes ? aluating the need for action to prevent occurrence of nonconformities ? etermining and implementing action needed ?					
d) red	cording of the results of the action taken (see 4.2.4) ? and					1
e) rev	viewing preventive action taken ?			i		
Select	ce Notes a non-conforming part and use 52 a) through h) to check for effectiveness. a non-conforming part and use 55 a) through e) to check for effectiveness.					
ت ب	e evidence assessed / Observations / Comments / N/A explanation individual improvement initiatives - 54-04-20, Ma			on Log	(113	tof
KA	winding actions evidenced at management persive debed :	725/14				
	Rich Management - Alect Activities.	· 57)				
	Fafoty activities, rejented on at MTM - QD & yellow, gren heath, for	lety m	dr	is		

S: Satisfactory - CAR: Corrective action required - Ma: Major corrective action - mi: Minor corrective action N/A: Not applicable - N/E: Not evaluated - P: Product - M: Management

Sustaining Eng. blan. 185- MPLM-PLAN-015 Rev A

RCN: MA 14331R4

MWI 8840.2

Odly-4619 Air Quality Saryle - record - Tags

Annex A (informative)

Bibliography

ISO 9000: 2000

Quality management systems - Fundamentals and vocabulary

ISO 9001: 2000

Quality management systems - Requirements

ISO 10011

Guidelines for auditing quality systems

EN 9100 - Section 1

Aerospace series – Quality management systems – Requirements (based on ISO 9001: 2000)

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	ASSESSMENT QUESTIONS	KEY Requirements	s	CAR Number Ma or mi	N/A	N/E
7.5 Produ	ction and service provision					
7.5.1 Control	of production and service provision					
56 Does planning	consider, as applicable :				Ī .	
	establishment of process controls and development of control plans where characteristics have been identified					
	dentification of in-process verification points when adequate verification of formance cannot be performed at a later stage of realization	Р	1			
	design, manufacture, and use of tooling so that variable measurements can aken, particularly for key characteristics, and					
- spec	ial processes (see 7.5.2).					
57 Does the organiconditions (1).	nization plan and carry out production and service provision under controlled		1			
Do these contri	olled conditions include, as applicable :					
a) the availa	oility of information that describes the characteristics of the product?					
b) the availa	bility of work instructions, as necessary?		l			
/	suitable equipment?					
d) the availal	oility and use of monitoring and measuring devices?		- 1	'		
e) the implen	nentation of monitoring and measurement?					
f) the implen	nentation of release, delivery and post-delivery activities?				1	
	bility for all product during manufacture (e.g., parts quantities, split orders, rming product) ?					
	that all manufacturing and inspection operations have been completed as or as otherwise documented and authorized ?	Р				
j provision	for the prevention, detection, and removal of foreign objects?	Р .		1		
	g and control of utilities and supplies such as water, compressed air, and chemical products to the extent they affect product quality ? and			060		
	r workmanship, which shall be stipulated in the clearest practical manner en standards, representative samples or illustrations) ?			449		

Guidance Notes

1) List the Part Number(s) used for this review

Objective evidence assessed / Observations / Comments / N/A explanation
155. Change Request 5500-8692 - change evaluation from
PIRD # 57212-NA-0029A MELFI Hardwar (CD Post-Rev B
Eng. Decommendation - K. Presson.
That Mrc # MTCP-FS-MPLMPT-303 10/28/03 Basic & Current Vaccum clarker - Culchatud divices listed

S: Satisfactory - CAR: Corrective action required - Ma: Major corrective action - mi: Minor corrective action N/A: Not applicable - N/E: Not evaluated - P: Product - M: Management

pressure garges - 542 cel eyel - operationed check call to 5/98 - 5/03 (5 gages)
might be confusing

Sustaining Eng. blan. 155-MILM-PLAN-015 Rev A

REN: MA 14331R4

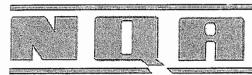
MWI 8840.2

Air Quality Sample - record - Tags

QUALITY SYSTEM QUESTIONNAIRE		,			
ASSESSMENT QUESTIONS	KEY Requirements	S	CAR Number Ma or mi	N/A	N/E
7.5 Production and service provision (continued)					
7.5.1.1 Production documentation	· —————			,	,
58 Are production operations carried out in accordance with approved data ?					
59 Does the data contain as necessary: a) drawings, parts lists, process flow charts including inspection operations, production documents (e.g., manufacturing plans, traveler, router, work order, process cards); and inspection documents (see 8.2.4.1) ? and b) a list of specific or non-specific tools and numerical control (NC) machine programs required and any specific instructions associated with their use ?	P	<u>/</u>	1		
	1 1				
7.5.1.2 Control of production process changes MUI 840. 2				<u> </u>	
60 Are persons authorized to approve changes to production processes identified (1) ?	M	1			
61 Has the organization identified and obtained acceptance of changes that require customer and/or regulatory authority approval in accordance with contract or regulatory requirements ?		1			
62 Are changes affecting processes, production equipment, tools and programs documented?	P	1			,
63 Are procedures available to control their implementation?	'		14		
64 Are the results of changes to production processes assessed to confirm that the desired effect has been achieved without adverse effects to product quality?	P	/			
7.5.1.3 Control of production equipment, tools and numerical control (N.C.) machine program			· · · · · · · · · · · · · · · · · · ·		
65 Are production equipment, tools and programs validated prior to use and maintained and inspected periodically according to documented procedures? 66 Part of the first state of the	Proted				4
66 Does validation prior to production use include verification of the first article produced to the design data/specification? No Sample pulse	P				4
67 Are storage requirements, including periodic preservation/condition checks, established for production equipment or tooling in storage?		<u>.</u>			4
7.5.1.4 Control of work transferred, on a temporary basis, outside the organization's facilities		-	· · · · · · · · · · · · · · · · · · ·		
68 When planning to temporarily transfer work to a location outside the organization's facilities, does the organization define the process to control and validate the quality of the work?	М			ن	1
Guidance Notes					$\overline{}$
Clearly defined list or procedures		<u>.</u>			
Objective evidence assessed / Observations / Comments / N/A explanation					
Chary request - 55CN 3578 4/08 SSCN 8692 " Veified authorized in dividua	b s			4	
550N BB 3578 on MPLM (155-MPLM-PLAN-017 155-MPLM-PLAN-017 Per C 10/03 Loud 3 CCM in 1 CBD1-1413-00-6065	slac (me	alre	edip-ce	cR)	
ECR- , FD 24-0032					
Bldg 44.19 - Air Quality Testing - record results noted on Tags					
S: Satisfactory - CAR: Corrective action required – Ma: Major corrective action – ml: M. N/A: Not applicable - N/E: Not evaluated - P: Product - M: Manageme		e acti	on		

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NATIONAL QUALITY ASSURANCE, USA

ATTENDANCE ROSTER

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^ /	AUDIT DATE	June 22-25, 04

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	HEI PAC Engluein	HET	*	\times
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DOMAMTORE	Mar-Media + Cotrecting	NASA/MGFC	\times	
	Org. Rep- CD03	NASAIMSFC	——	
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· · · · · · · · · · · · · · · · · · ·	SD TSO/MMS REP	NASA IMBEC	مح	
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TIM CORN	FACILITIES	NASa/MSFC	x	
TERESA VANHOOSER	FLIGHT PROJECTS	NASA/MSFC	X	
4 0 0	Engineen/Droley	NASAIMSTE	X	X
Wana Khook	Audit Manager	XIASA / MSFC	X	

NQA ISO AUDIT EXIT BRIEFING SIGN IN SHEET

DATE: 06/25/04

ORG AUDITED: MSFC BLDG/RM 4203/1201

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